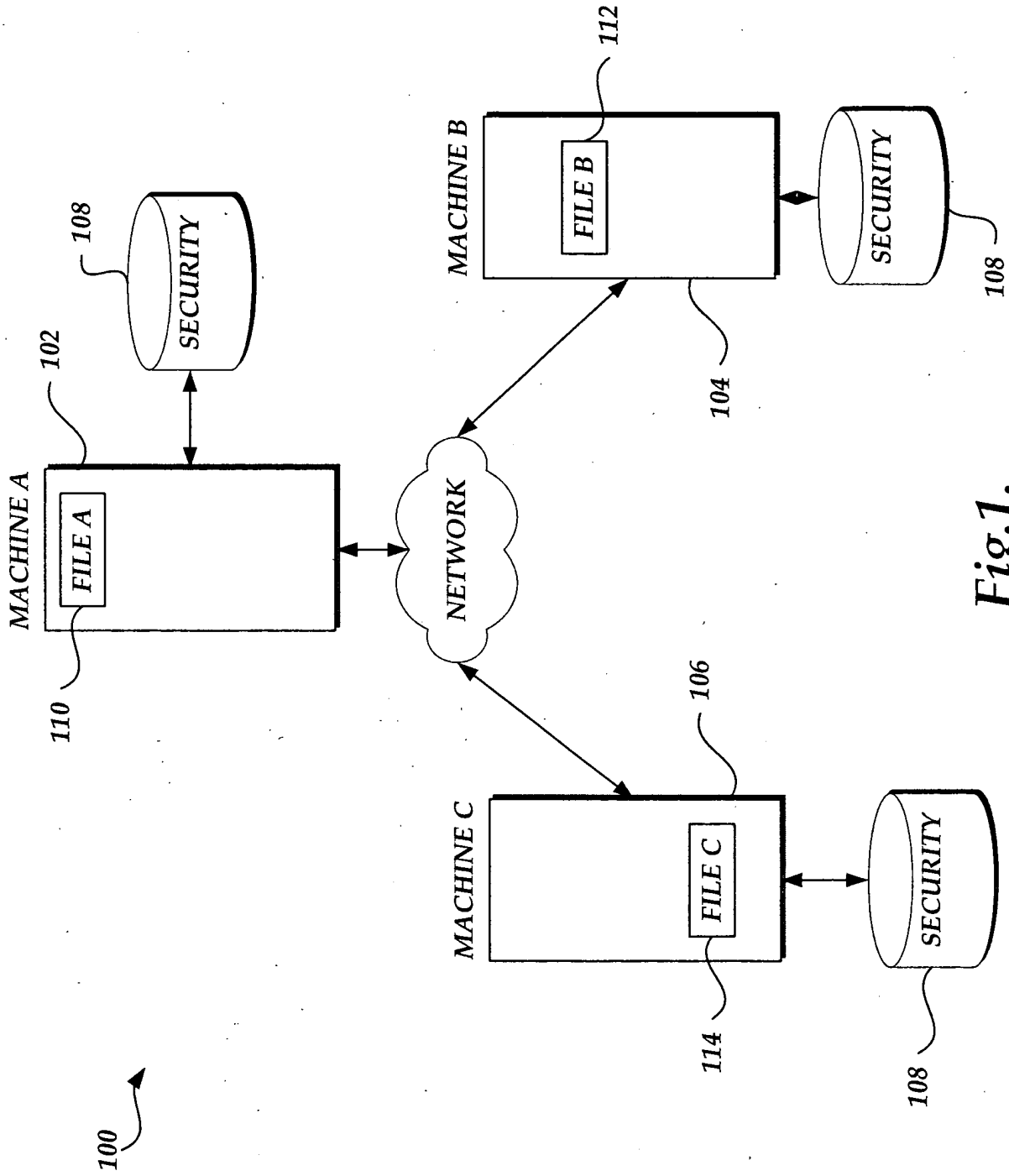
100
MACHINE A
FILE A
110
102
SECURITY
108
NETWORK
MACHINE B
FILE B
112
104
SECURITY
108
MACHINE C
FILE C
114
106
SECURITY
108

Fig.1.

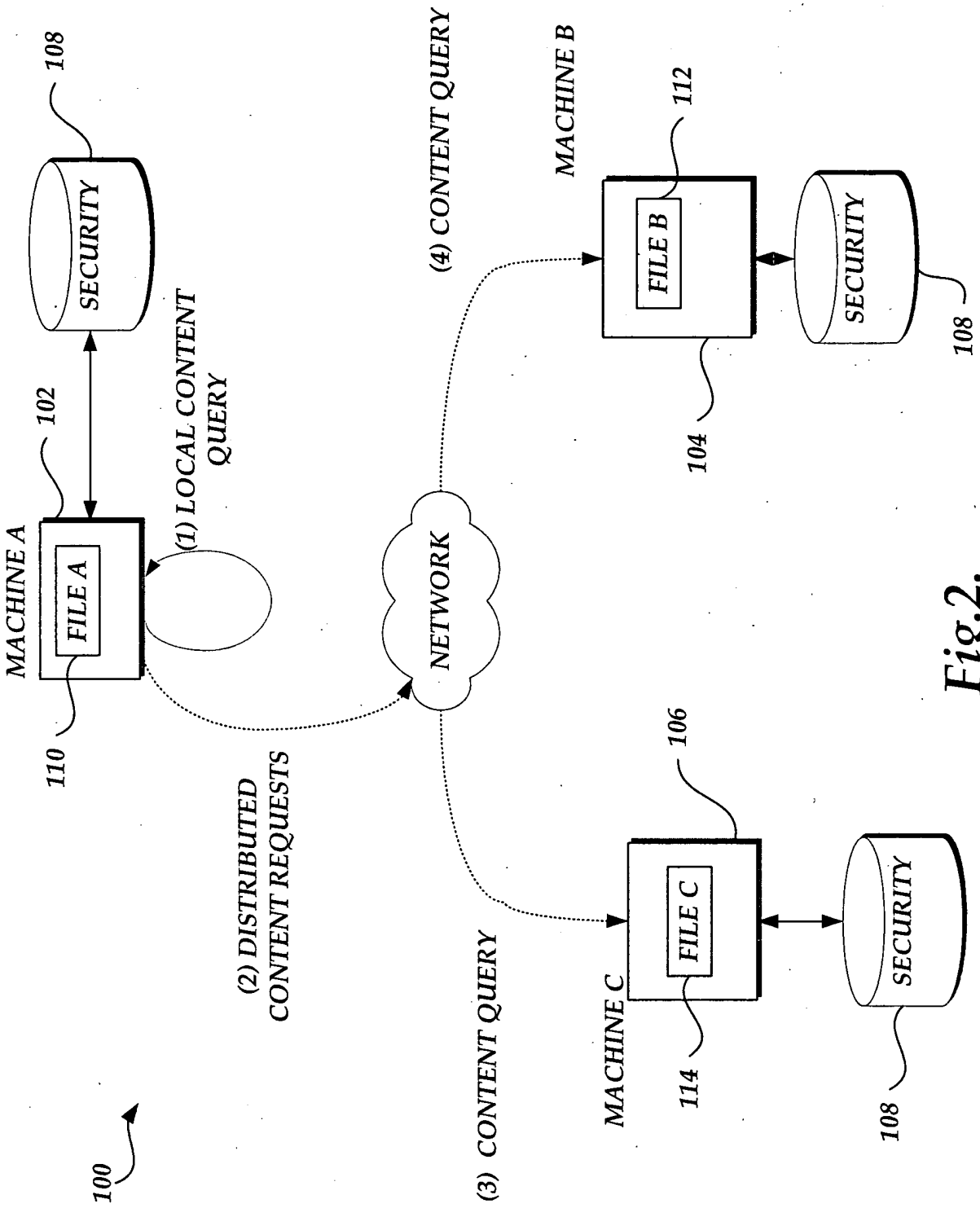
100
MACHINE A
FILE A
110
102
SECURITY
108
(1) LOCAL CONTENT QUERY
(2) DISTRIBUTED CONTENT REQUESTS
NETWORK
(3) CONTENT QUERY
(4) CONTENT QUERY
MACHINE B
FILE B
104
112
SECURITY
108
MACHINE C
FILE C
114
106
SECURITY
108

Fig.2.

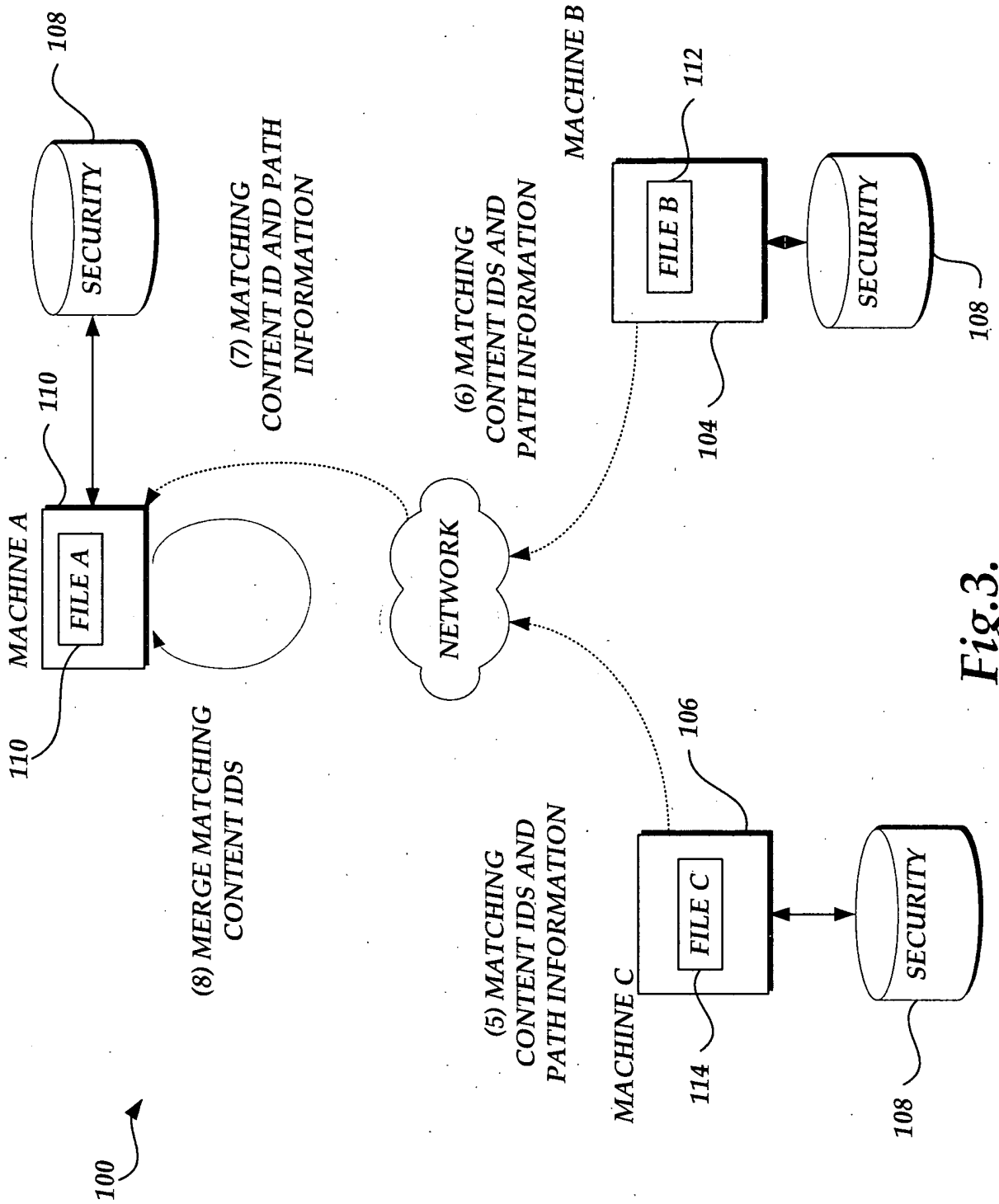
100
MACHINE A
110
FILE A
110
SECURITY
108
(7) MATCHING CONTENT ID AND PATH INFORMATION
(8) MERGE MATCHING CONTENT IDS
NETWORK
(6) MATCHING CONTENT IDS AND PATH INFORMATION
(5) MATCHING CONTENT IDS AND PATH INFORMATION
MACHINE B
112
FILE B
104
SECURITY
108
MACHINE C
106
FILE C
114
SECURITY
108

Fig.3.

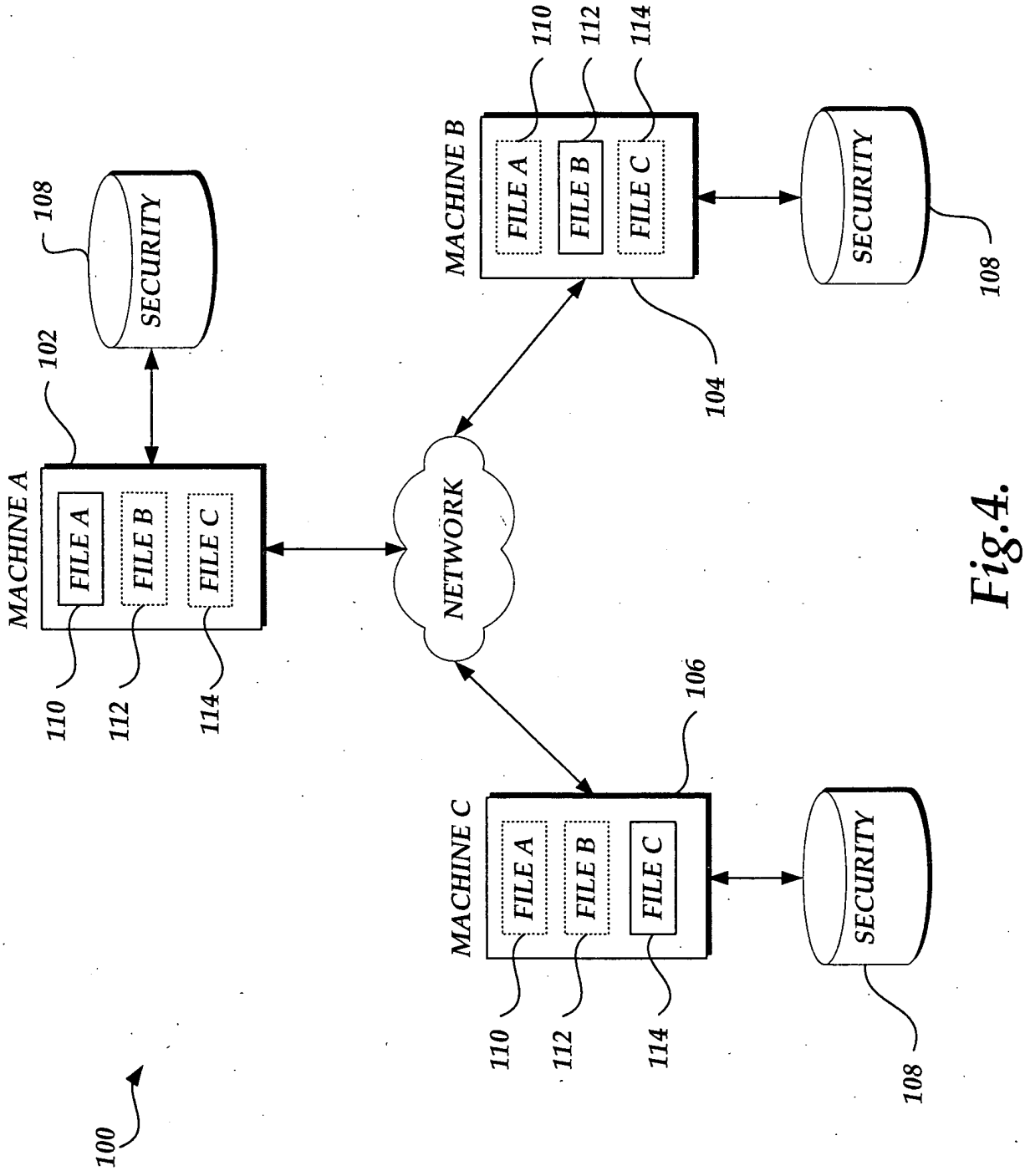
100
MACHINE A
102
FILE A
FILE B
FILE C
110
112
114
SECURITY
108
NETWORK
MACHINE B
104
MACHINE C
106

Fig.4.

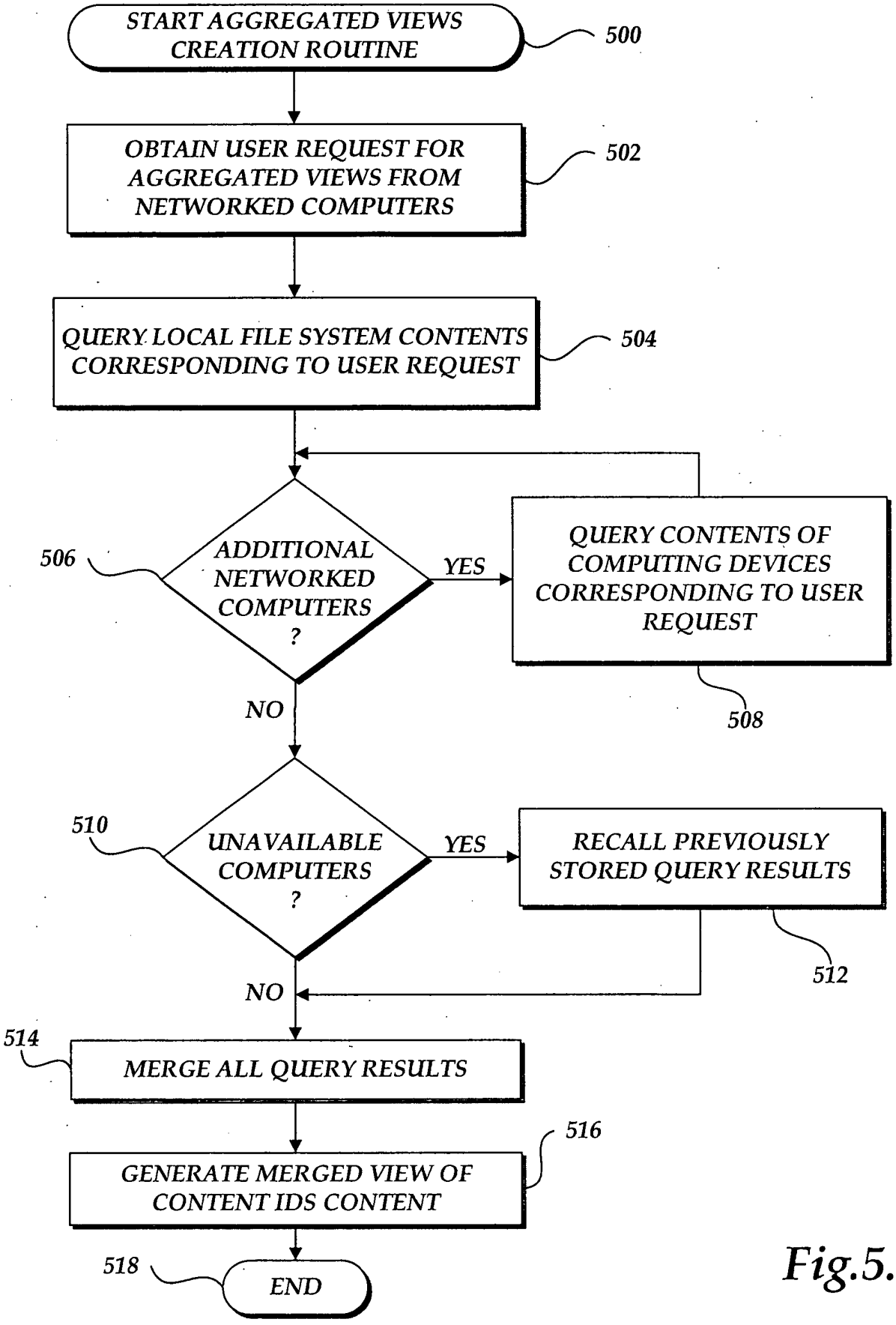
START AGGREGATED VIEWS CREATION ROUTINE
500
OBTAIN USER REQUEST FOR AGGREGATED VIEWS FROM NETWORKED COMPUTERS
502
QUERY LOCAL FILE SYSTEM CONTENTS CORRESPONDING TO USER REQUEST
504
506
ADDITIONAL NETWORKED COMPUTERS ?
YES
QUERY CONTENTS OF COMPUTING DEVICES CORRESPONDING TO USER REQUEST
508
NO
510
UNAVAILABLE COMPUTERS ?
YES
RECALL PREVIOUSLY STORED QUERY RESULTS
512
NO
514
MERGE ALL QUERY RESULTS
516
GENERATE MERGED VIEW OF CONTENT IDS CONTENT
518
END

Fig.5.

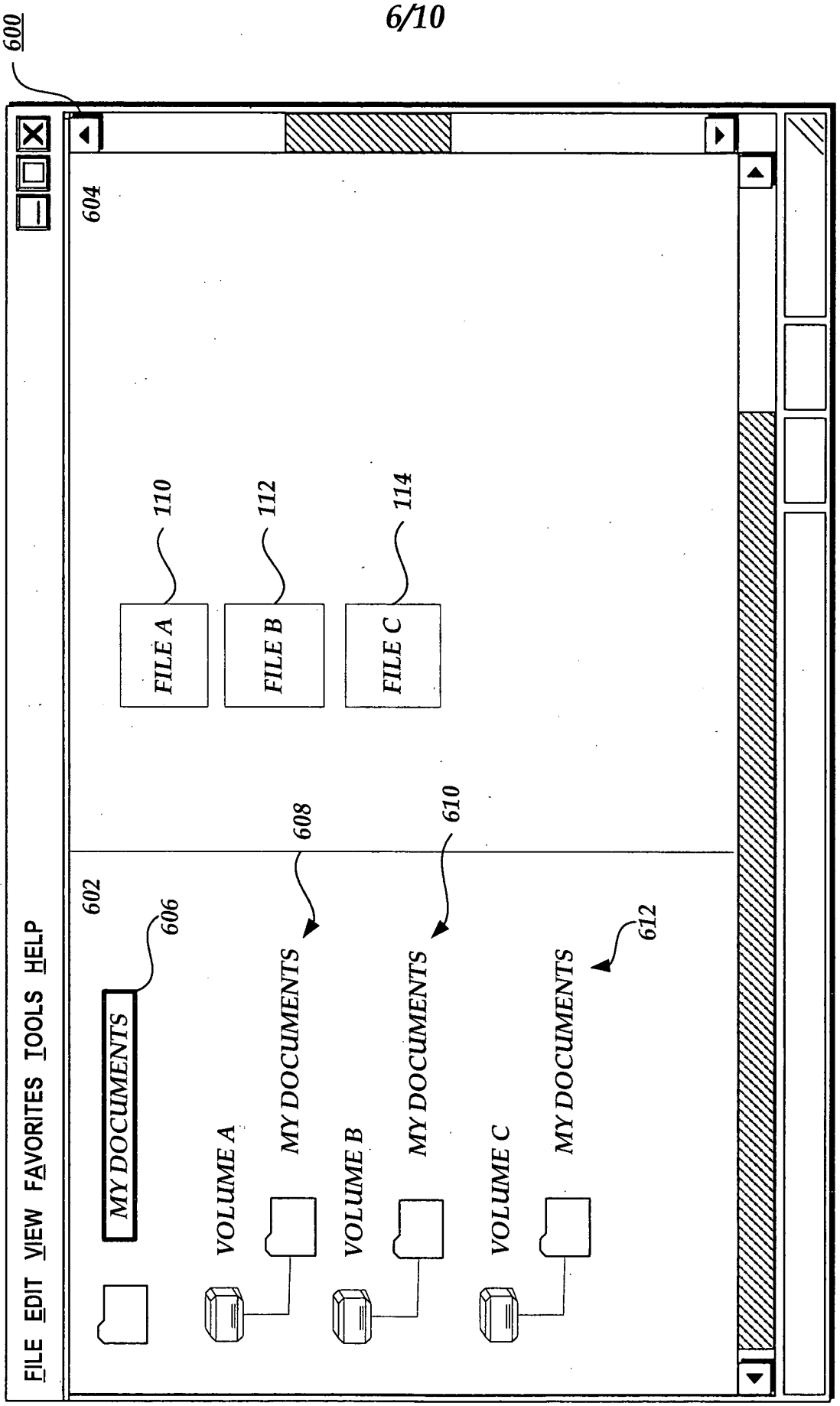
600
604
FILE A
110
FILE B
112
FILE C
114
608
610
602
606
612
MY DOCUMENTS
VOLUME A
MY DOCUMENTS
VOLUME B
MY DOCUMENTS
VOLUME C
MY DOCUMENTS
FILE EDIT VIEW FAVORITES TOOLS HELP

Fig.6A.

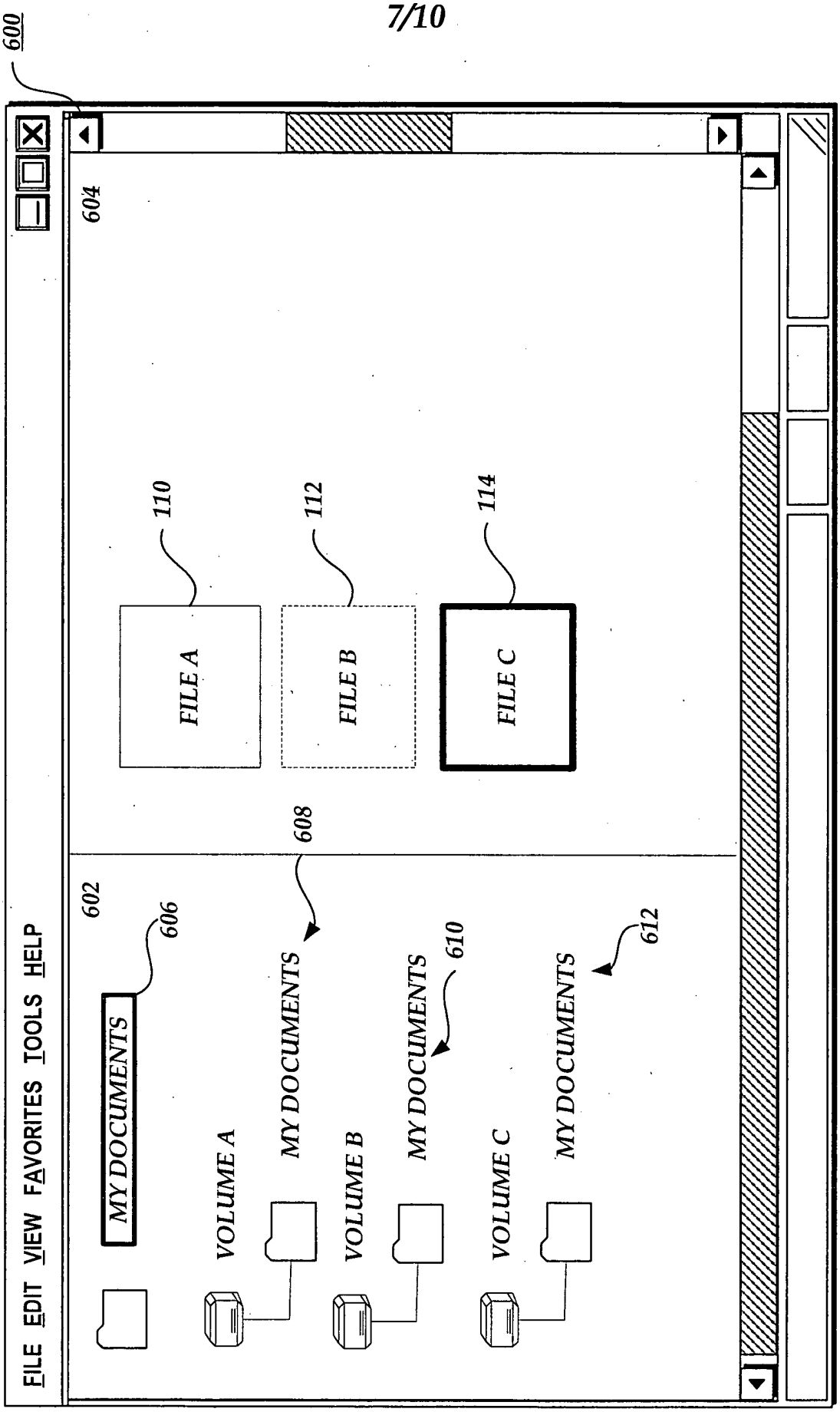
600
604
110
112
114
FILE A
FILE B
FILE C
608
602
606
MY DOCUMENTS
VOLUME A
MY DOCUMENTS
610
VOLUME B
MY DOCUMENTS
612
VOLUME C
MY DOCUMENTS
FILE EDIT VIEW FAVORITES TOOLS HELP

Fig.6B.

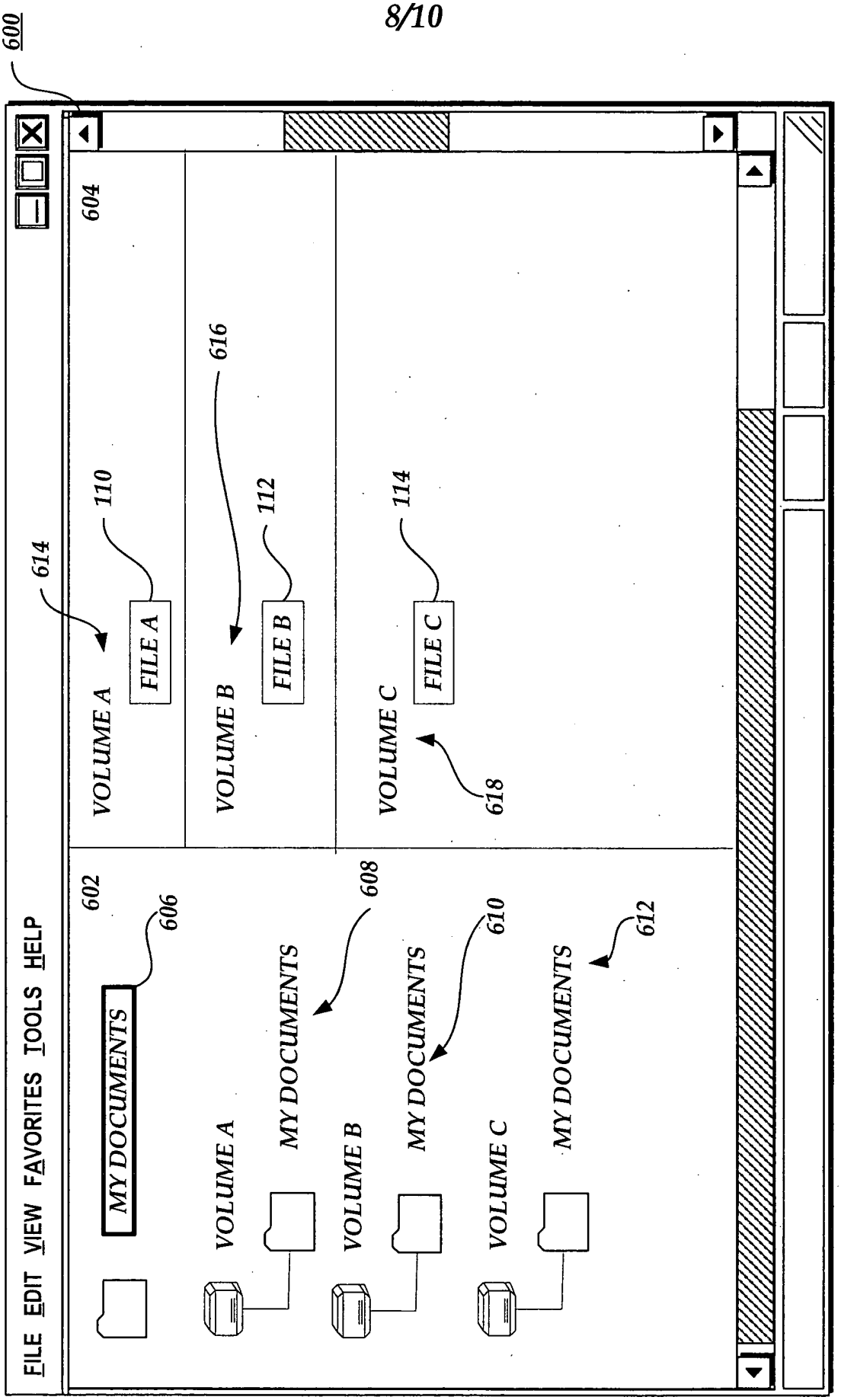
600
FILE EDIT VIEW FAVORITES TOOLS HELP
602
MY DOCUMENTS
606
VOLUME A
MY DOCUMENTS
608
VOLUME B
MY DOCUMENTS
610
VOLUME C
MY DOCUMENTS
612
604
VOLUME A
FILE A
110
614
VOLUME B
FILE B
112
616
VOLUME C
FILE C
114
618

Fig.6C.

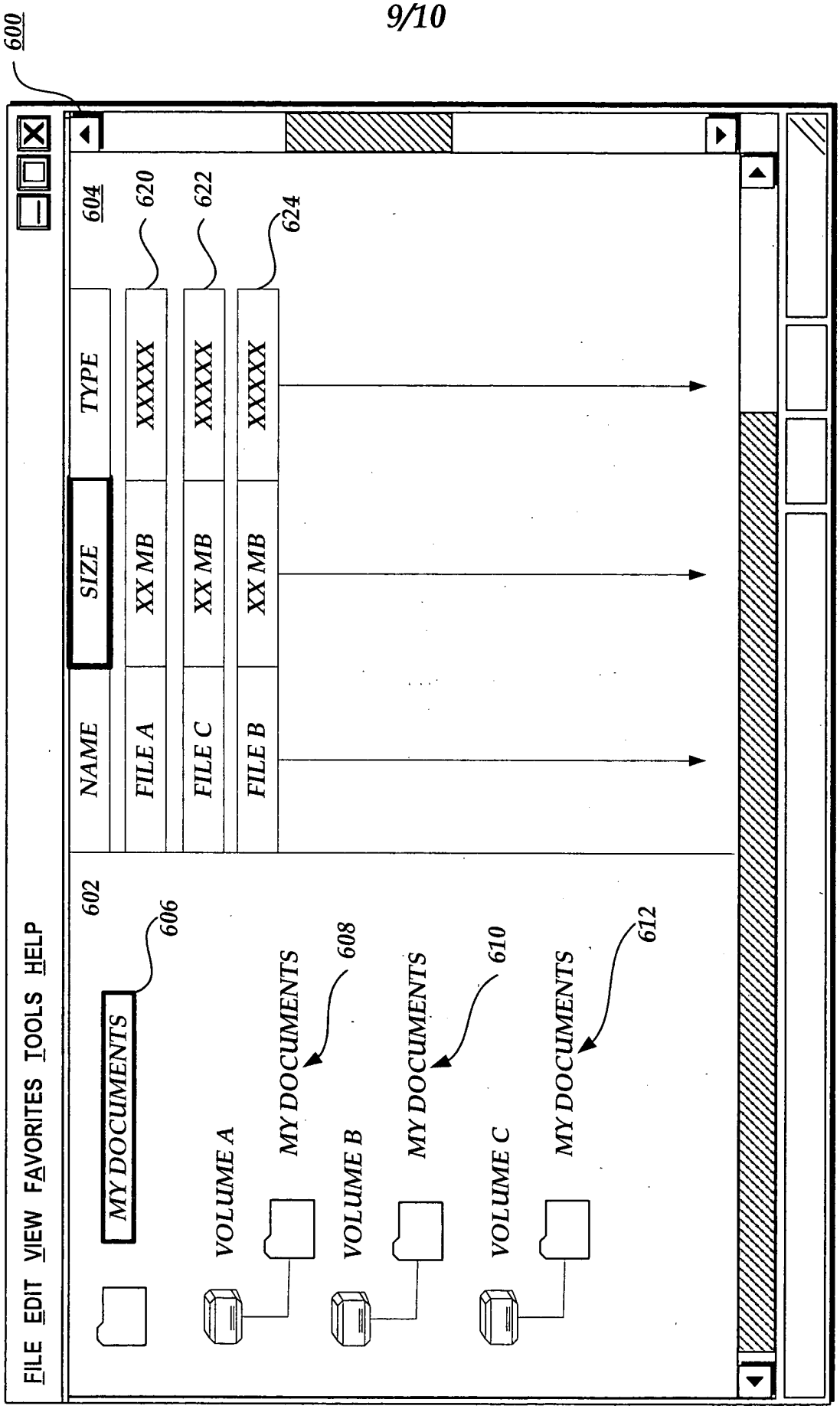
600
FILE EDIT VIEW FAVORITES TOOLS HELP
602
604
NAME
SIZE
TYPE
620
622
624
FILE A
XX MB
XXXXX
FILE C
XX MB
XXXXX
FILE B
XX MB
XXXXX
606
MY DOCUMENTS
608
MY DOCUMENTS
610
MY DOCUMENTS
612
MY DOCUMENTS
VOLUME A
VOLUME B
VOLUME C

Fig.6D.

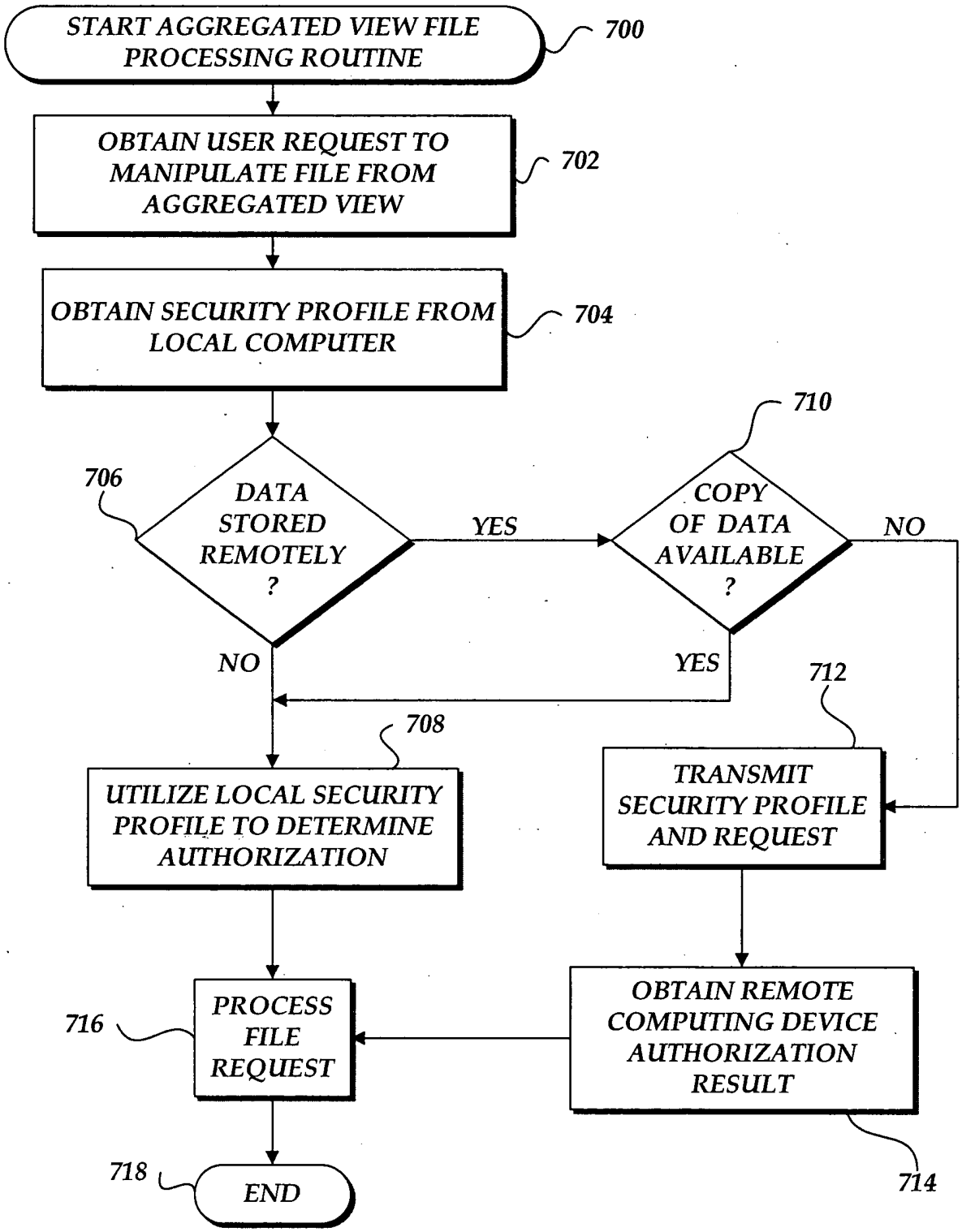
START AGGREGATED VIEW FILE PROCESSING ROUTINE
700
OBTAIN USER REQUEST TO MANIPULATE FILE FROM AGGREGATED VIEW
702
OBTAIN SECURITY PROFILE FROM LOCAL COMPUTER
704
706
DATA STORED REMOTELY ?
YES
710
COPY OF DATA AVAILABLE ?
NO
NO
YES
712
708
UTILIZE LOCAL SECURITY PROFILE TO DETERMINE AUTHORIZATION
TRANSMIT SECURITY PROFILE AND REQUEST
716
PROCESS FILE REQUEST
OBTAIN REMOTE COMPUTING DEVICE AUTHORIZATION RESULT
718
END
714

Fig.7.